

इंटरनेट

मानक

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“पुराने को छोड़ नये के तरफ”

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“Step Out From the Old to the New”

IS 6606 (1972): Albuminometer (Esbach's) with Stopper, Stand and Case [MHD 10: Medical Laboratory Instruments]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



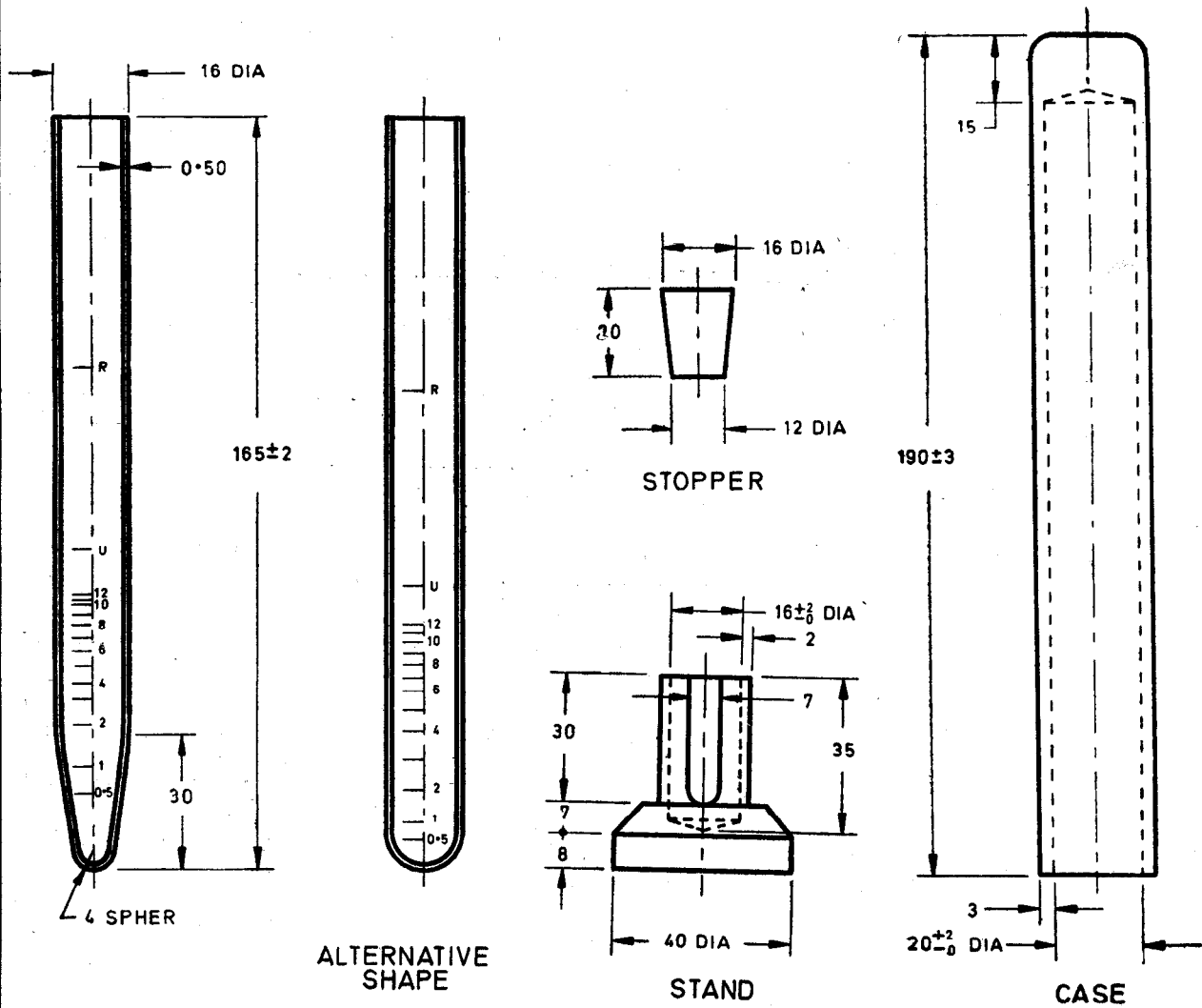
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*Indian Standard*  
**SPECIFICATION FOR  
ALBUMINOMETER (ESBACH'S) WITH STOPPER,  
STAND AND CASE**

- 1. Scope**—Dimensions and other requirements for Esbach's albuminometer with its stopper, stand and case, used in pathological work.
- 2. Material**—Different components shall be manufactured from the following materials.
  - 2.1 Albuminometer Tube**—Clear, neutral, heat-resistant glass (for definition see IS:1382-1961 Glossary of terms relating to glass industry). The glass shall pass the alkalinity test prescribed in IS:2303-1963 'Method of grading glass for alkalinity' for Type I glass.
  - 2.2 Stopper**—India rubber of suitable quality.
  - 2.3 Stand and Case**—Any seasoned fine-grained timber free from sapwood, centre heart (pitch), brashness, decay, insect attack, objectionable knots, splits, warping or other defects. It shall be reasonably straight-grained and its moisture content shall be not more than 12 percent.
- 3. Shape and Dimensions**—As shown in Fig. 1.



All dimensions in millimetres.  
**FIG. 1 ALBUMINOMETER (ESBACH'S)**

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**4. Graduation Marks**—The tube shall be graduated to indicate the weight in grams per litre of dried albumin in the solution under test. The graduations shall be finely etched permanent lines of even thickness and shall be in planes perpendicular to the axis of the tube. The marking and the scheme of graduation shall be as given below:

Markings on Tube Scale	Corresponding Volumes in cm <sup>3</sup>
0.5	0.80
1	1.40
2	2.60
3	3.50
4	4.45
5	5.25
6	6.05
7	6.55
8	7.10
9	7.45
10	7.75
11	8.10
12	8.45
U	10.40
R	17.40

## 5. Workmanship and Finish

**5.1** The albuminometer tube shall be free from stones, bubbles and, as far as possible, from striae, seeds and other visible defects.

**5.2** It shall be well annealed.

**5.3** The tube shall be symmetrical about its axis and shall be of uniform thickness.

**5.4** The rim shall be rounded.

**5.5** The bottom shall approximately be of the same thickness as walls.

**5.6** The stand and the case shall be turned from a single piece. They shall be finished smooth, both inside and outside and shall fit properly.

**5.7** The stand and the case shall have one coat of French polish on the outside.

## 6. Tests

**6.1 Albuminometer Tube Capacity**—The volume of water required to fill the tube to any graduation mark shall not differ by more than 0.25 ml or 10 percent whichever is less from the value specified for the mark in 4.

**6.2 Reaction with Acid on Stopper**—There shall be no visible effect or change in the condition of the stopper when tested in accordance with the method given in 6.2.1.

**6.2.1** Take a clean stopper and keep it immersed in 100 ml of sulphuric acid of sp gr 1.370 in a beaker by

**6.3 Accelerated Ageing Test for Stopper**—There shall be no deterioration softening, tackiness or other signs of damage to the test piece when tested according to the method given in 6.3.1.

**6.3.1** Take a clean stopper and cut it in four nearly equal parts along two diameters of one of its faces. Suspend the pieces in an oven having its temperature at  $70 \pm 2^\circ\text{C}$  and maintain these at this temperature for 16 hours. The pieces are to be suspended in such a way that they are about 25 mm from each other or the sides of the oven and that they do not occupy more than one-sixth of the total space available inside the oven.

**7. Marking**—The albuminometer tube, stand and the case shall be marked with the manufacturer's name, initials or recognized trade-mark.

**7.1 ISI Certification Marking**—Details available from the Indian Standards Institution, New Delhi 1.

**8. Packing**—As agreed to between the purchaser and the supplier.